



**STATE OF TENNESSEE
DEPARTMENT OF HEALTH
ENVIRONMENTAL LABORATORIES**

TDH: Lab Services JRL
Lab Services - Jackson Regional Lab
Jackson, TN 38301
731-426-0686

TDH: Lab Services KRL
Lab Services - Knoxville Regional Lab
Knoxville, TN 37920
865-549-5201

TDH: Lab Services NCL
Lab Services - Nashville Central Lab
Nashville, TN 37243
615-262-6300

Sent To: Steve Roberts
TDEC-DWS
Knoxville FO
3711 Middlebrook Pike
Knoxville, TN 37921

Lab ID: K00002079
Knoxville Regional Laboratory

Sampling Agency: TDEC: Division of Water Supply

Billing Code: 327.39-12

This is to certify that the following results were determined using
good laboratory practices and in accordance with federal or state
approved methodologies.

Analytical Supervisor

Lab-Sample Number: K00002079001

Project Name:

Sample Description: Finished

Sampler Project Name:

Project Site No.: Kingston WTP

Station No.:

Date/Time Collected: 12/23/2008 13:15

Sampler's Name: Steve Mauney

County: ROANE - 73

Sample Matrix: Drinking Water

EFO: Knoxville

Sampling Agency: TDEC-DWS

Billing Code: 327.39-12

Send Report To: TDEC-DWS

Agency Invoiced: TDEC-DWS

Priority Date:

Date/Time Received: 12/23/2008 14:40

Received By: E McCrary

Field Determinations

pH:

Chlorine, residual:

Conductivity:

Temperature:

Dissolved Oxygen:

Other:

Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	12/30/2008				A Bass	12/30/2008

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	U	µg/L	2.9	10	A Bass	12/30/2008
Sodium	13	mg/L	0.027	0.10	A Bass	12/30/2008

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	24	µg/L	6.4	10	M Pattanayek	12/30/2008
Antimony	U	µg/L	0.33	1	M Pattanayek	12/30/2008
Arsenic	U	µg/L	0.93	5	M Pattanayek	12/30/2008
Barium	19	µg/L	2.5	5	M Pattanayek	12/30/2008
Beryllium	U	µg/L	0.11	1	M Pattanayek	12/30/2008
Cadmium	U	µg/L	0.41	1	M Pattanayek	12/30/2008
Chromium	U	µg/L	2.0	5	M Pattanayek	12/30/2008
Copper	5.5	µg/L	0.38	1	M Pattanayek	12/30/2008
Lead	U	µg/L	0.10	1	M Pattanayek	12/30/2008
Manganese	0.74J	µg/L	0.42	1	M Pattanayek	12/30/2008
Nickel	U	µg/L	0.25	1	M Pattanayek	12/30/2008
Silver	U	µg/L	0.03	0.25	M Pattanayek	12/30/2008
Thallium	0.88J	µg/L	0.03	1	M Pattanayek	12/30/2008
Zinc	5.4	µg/L	1.9	5	M Pattanayek	12/30/2008

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.13	0.2	A Wilson	12/30/2008

Lab-Sample Number: K00002079001
Project Name:
Sample Description: Finished
Sampler Project Name:
Project Site No.: Kingston WTP
Station No.:
Date/Time Collected: 12/23/2008 13:15
Sampler's Name: Steve Mauney
County: ROANE - 73
Sample Matrix: Drinking Water
EFO: Knoxville
Sampling Agency: TDEC-DWS
Billing Code: 327.39-12
Send Report To: TDEC-DWS
Agency Invoiced: TDEC-DWS
Priority Date:
Date/Time Received: 12/23/2008 14:40
Received By: E McCrary

Field Determinations

pH:

Chlorine, residual:

Conductivity:

Temperature:

Dissolved Oxygen:

Other:

Flow:

CFS

J - Estimated value between MDL and MQL

MDL - Method Detection Limit

MQL - Method Quantitation Limit

U - Undetected

Lab-Sample Number: K00002079002
Project Name:
Sample Description: Raw
Sampler Project Name:
Project Site No.: Kingston WTP
Station No.:
Date/Time Collected: 12/23/2008 13:15
Sampler's Name: Steve Mauney
County: ROANE - 73
Sample Matrix: Drinking Water
EFO: Knoxville
Sampling Agency: TDEC-DWS
Billing Code: 327.39-12
Send Report To: TDEC-DWS
Agency Invoiced: TDEC-DWS
Priority Date:
Date/Time Received: 12/23/2008 14:40
Received By: E McCrary

Field Determinations

pH:
Chlorine, residual:
Conductivity:
Temperature:
Dissolved Oxygen:
Other:
Flow: CFS

TEST: Digestion Metals		METHOD: EPA 200.2				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Digestion Metals	12/30/2008				A Bass	12/30/2008

TEST: ICP		METHOD: EPA 200.7				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Iron	330	µg/L	2.9	10	A Bass	12/30/2008
Sodium	8.5	mg/L	0.027	0.10	A Bass	12/30/2008

TEST: ICP-MS		METHOD: EPA 200.8				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Aluminum	250	µg/L	6.4	10	M Pattanayek	12/30/2008
Antimony	U	µg/L	0.33	1	M Pattanayek	12/30/2008
Arsenic	U	µg/L	0.93	5	M Pattanayek	12/30/2008
Barium	21	µg/L	2.5	5	M Pattanayek	12/30/2008
Beryllium	U	µg/L	0.11	1	M Pattanayek	12/30/2008
Cadmium	U	µg/L	0.41	1	M Pattanayek	12/30/2008
Chromium	U	µg/L	2.0	5	M Pattanayek	12/30/2008
Copper	3.9	µg/L	0.38	1	M Pattanayek	12/30/2008
Lead	0.33J	µg/L	0.10	1	M Pattanayek	12/30/2008
Manganese	31	µg/L	0.42	1	M Pattanayek	12/30/2008
Nickel	U	µg/L	0.25	1	M Pattanayek	12/30/2008
Silver	0.03J	µg/L	0.03	0.25	M Pattanayek	12/30/2008
Thallium	0.15J	µg/L	0.03	1	M Pattanayek	12/30/2008
Zinc	60	µg/L	1.9	5	M Pattanayek	12/30/2008

TEST: Mercury		METHOD: EPA 245.1				
ANALYTE	RESULT	UNITS	MDL	MQL	ANALYZED BY:	DATE
Mercury	U	µg/L	0.13	0.2	A Wilson	12/30/2008

Lab-Sample Number: K00002079002
Project Name:
Sample Description: Raw
Sampler Project Name:
Project Site No.: Kingston WTP
Station No.:
Date/Time Collected: 12/23/2008 13:15
Sampler's Name: Steve Mauney
County: ROANE - 73
Sample Matrix: Drinking Water
EFO: Knoxville
Sampling Agency: TDEC-DWS
Billing Code: 327.39-12
Send Report To: TDEC-DWS
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Field Determinations

pH:
Chlorine, residual:
Conductivity:
Temperature:
Dissolved Oxygen:
Other:
Flow: CFS

J - Estimated value between MDL and MQL
MDL - Method Detection Limit
MQL - Method Quantitation Limit
U - Undetected